## I claim:

1. A composition with synergistic anti-inflammatory properties in conditions induced by the activation of mast cells, consequent degranulation of said cells and secretion of inflammatory biomolecules, comprising a non-bovine proteoglycan sulfate and an unrefined olive kernel extract ("OKE"), and one or more of a hexosamine sulfate, a flavone, S-adenosylmethionine ("SAM"), a histamine-1 receptor antagonist, a histamine-3 agonist, an antagonist of the actions of Corticotropin Releasing Hormone ("CRH"), a hyaluronate salt, a rutin, a polyamine, and caffeine, in an appropriate excipient or vehicle.

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2. The composition according to claim 1, wherein said sulfated proteoglycan is selected from the group consisting of non-bovine chondroitin sulfate, keratan sulfate, dermatan sulfate and sodium hyaluronate.

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3. The composition according to claim 2, wherein said chondroitin sulfate is chondroitin sulfate C derived from shark cartilage.

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- 4. The composition according to claim 1, wherein said hexosamine sulfate is D-glucosamine sulfate.
- 5. The composition according to claim 1, wherein said flavone is selected from the group consisting of quercetin, myricetin, genistein and kaempferol.
- 6. The composition according to claim 1, wherein said unrefined\_kernel extract contains polyphenols and alpha-tocopherol.
- 7. The composition according to claim 1, said composition being for oral use, comprising 10-3,000 mg per capsule or tablet of each of non-bovine chondroitin sulfate C, quercetin and D-glucosamine sulfate, with 900-1200 mg unrefined olive kernel extract.

8. The composition according to claim 7, further supplemented with 3-1,000 mg of SAM per capsule or tablet.

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- 9. A composition according to claim 1, wherein said inflammatory diseases are selected from the group consisting of: arthritis, cancers, fibromyalgia, inflammatory bowel disease, interstitial cystitis, irritable bowel syndrome, migraines, angina, chronic prostatitis, eczema, multiple sclerosis, psoriasis, sun burn, tooth decay, periodontal disease, stressed-induced migraines, stress-induced opening of bladder mucosa, stress-induced opening of the blood-brain barrier, superficial vasodilator (flush) syndrome, medical devices and hormonally-dependent cancers.
- 10. The composition according to claim 9, wherein said inflammatory disease is arthritis and said composition is for oral administration, comprising non-bovine chondroitin sulfate, OKE, quercetin, D-glucosamine sulfate, and, optionally, sodium hyaluronate.
- 11. The composition according to claim 9, wherein said inflammatory disease is arthritis and said composition is for topical use, comprising, non-bovine chondroitin sulfate, OKE, D-glucosamine sulfate, quercetin, sodium hyaluronate, and bitter willow bark extract.
- 12. The composition according to claim 9 for oral or aerosol use in allergic conditions, comprising non-bovine chondroitin sulfate, OKE and a flavonoid selected from the group consisting of quercetin, myricetin and kaempferol, and, optionally, a histamine-1 receptor antagonist.
- 13. The composition according to claim 9, for topical use in allergic conditions, comprising non-bovine chondroitin sulfate, OKE, myricetin, alpha-

tocopherol, and, optionally, a histamine-1-receptor antagonist.

14. The composition according to claim 13, wherein said antagonist is diphenhydramine, hydroxyzine, azatadine, azelastine or cyproheptadine.

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15. The composition according to claim 9 wherein said inflammatory disease is superficial vasodilator "flush" syndrome, said composition comprising a non-bovine proteoglycan, OKE, a flavonoid, bitter willow bark extract, and, optionally, cyproheptadine or azatadine.

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16. The composition according to claim 9, wherein said inflammatory disease is multiple sclerosis, said composition comprising non-bovine chondroitin sulfate, OKE, quercetin or myricetin, hydroxyzine, and, optionally, caffeine, SAM and interferon-beta.

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17. The composition according to claim 9, wherein said inflammatory disease is migraine headaches, and said composition comprises non-bovine chondroitin sulfate, OKE, quercetin, and azatadine.

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18. The composition according to claim 1, said composition being for oral use, comprising 150-300 mg per capsule or tablet of each of non-bovine chondroitin sulfate, quercetin and D-glucosamine sulfate, with 900-1200 mg of OKE, and, optionally, 100-200 mg sodium hyaluronate and/or 100 mg SAM.

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19. The composition according to claim 1, said composition consisting of an ointment or cream for topical application, comprising, in % by weight, non-bovine chondroitin sulfate, 5; OKE, 15; D-glucosamine sulfate, 5; quercetin, 3; sodium hyaluronate 5; and, bitter willow bark extract 5.

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20. The composition according to claim 19 supplemented by at least

one of the histamine-1 receptor antagonists diphenhydramine, hydroxyzine, azelastine, azatadine, cyproheptadine, each 1-5 mg %.

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- 21. The composition according to claim 1, said composition compromising a mouth wash composition, consisting of non-bovine chondroitin sulfate and quercetin, each 0.3-0.4 M; OKE, 1% (v/v); and, optionally, at least one of D-glucosamine sulfate, 0.4 M and SAM, 0.15 M, in a mouth wash vehicle.
- 22. The composition according to claim 1, said composition consisting of a tooth paste, comprising, in mg%, non-bovine chondroitin sulfate, 5; OKE,1; quercetin, 3, and, optionally, D-glucosamine sulfate, 5, in a tooth paste vehicle.
  - 23. The composition according to claim 1, said composition consisting of a sunscreen composition, comprising, in mg%, non-bovine chondroitin sulfate, 5; OKE, 10; quercetin 3; and at least one of D-glucosamine sulfate, 5, and titaniun dioxide, 5, in a sun screen vehicle.
  - 24. The composition according to claim 1, for use in treating migraine headaches, said composition comprising, in mg, non-bovine chondroitin sulfate, 50; OKE, 150; guercetin, 100; azatadine, 4; and, optionally, a CRH antagonist.
  - 25. The composition according to claim 1, said composition comprising, in mg, non-bovine chondroitin sulfate, 50: quercetin, 400; hydroxyzine, 50; and, optionally, a CRH antagonist.
  - 26. The composition according to claim 1, said composition comprising, in mg, non-bovine chondroitin sulfate, 100; OKE, 900-1200; D-glucosamine sulfate, 50; and quercetin, 100.
    - 27. The composition according to claim 1, comprising, in mg%, non-

bovine chondroitin sulfate, 5; OKE, 900-1200; D-glucosamine sulfate, 5; and quercetin, 3.

28. The composition according to claim 1, wherein said inflammatory disease is cancer and wherein said composition is designed for oral use, comprising 25-50 mg of genistein and 150-300 mg of quercetin, and 900-1200 mg OKE.

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- 29. The composition according to claim 1, wherein said inflammatory

  disease is atherosclerosis with or without myocardial ischemia, comprising 100
  300 mg each of non-bovine chondroitin sulfate, myricetin, folic acid and SAM, and

  900-1200 mg OKE, in a vehicle for oral use.
- 30. The composition according to claim 1, wherein said inflammatory
  disease is interstitial cystitis or prostatitis, said composition comprising, in mg,
  100-300 of non-bovine chondroitin sulfate, 900-1200 of OKE, 50-300 Dglucosamine sulfate, 100-300 of sodium hyaluronate, 100-400 quercetin, in a
  vehicle for oral use.
- 31. The composition according to claim 1, wherein said inflammatory disease is multiple sclerosis, said composition comprising, in mg, 50-300 each of non-bovine chondroitin sulfate, myricetin, hydroxyzine and SAM, 900-1200 of OKE, and, optionally, interferon-beta, in a vehicle for oral use.
  - 32. The composition according to claim 1, said composition comprising, in mg, non-bovine chondroitin sulfate 200; OKE, 450; myricetine, 200; and diphenhydramine, 5 mg.
    - 33. The composition according to claim 1, said composition comprising, in mg, non-bovine chondroitin sulfate, 50; OKE, 900-1200; kaempferol, 100; SAM, 50;

folic acid, 50; and niacin, 100.

- 34. The composition according to claim 1, wherein said inflammatory disease is superficial vasodilation flush syndrome, said composition comprising 50 mg non-bovine chondroitin sulfate; OKE, 450 mg; 350 mg quercetin, 5% by weight bitter willow bark extract, and, optionally, 4 mg cyproheptadine or azatadine.
- 35. The composition according to claim 1, wherein said inflammatory
  disease is skin allergy, said composition comprising, in % by weight, 5 each of
  aloe vera, non-bovine chondroitin sulfate and alpha-tocopherol, 15 of OKE, and,
  optionally, azelastine.
- 36. The composition according to claim 1, wherein said inflammatory
  disease in allergy or allergic asthma, comprising 200 mg of myricetin, 200 mg of
  non-bovine chondroitin sulfate, and, optionally, azelastine or hydroxyzine.
- 38. The composition according to claim 1, wherein said inflammatory
  disease is a hormonally-dependent cancer, comprising, in mg, non-bovine
  chondroitin sulfate, 150; OKE, 450; quercetin, 250; genistein, 50; and, optionally,
  10 tamoxifen or raloxifen.
- 39. The composition according to claim1, wherein said inflammatory disease is allergic conjunctivitis, comprising quercetin, 0.05%; non-bovine chondroitin sulfate, 2.0%; OKE, 0.001%; and, optionally, azelastine 0.05%.